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| **EDT 674**  **PBL Class Proposal** | |
| **Name: Tammy Rhody Date: 2/11/2011** | |
| **Unit of Study:** Lateral Area, Surface Area, and Volume of prisms, cylinders, spheres, cones, and pyramids.  **Time Frame: 5 to 7 days – 90 minute block scheduling** | |
| **Content Standards**:  C.12.2 Use geometric models\* to solve mathematical and real-world problems  D.12.3 Determine measurements indirectly\*, using geometric formulas to derive lengths, areas, or volumes of shapes and objects (e.g., cones, parallelograms, cylinders, pyramids)  D.8.4 Determine measurements indirectly\* using geometric formulas to derive lengths, areas, volumes of common figures (e.g., perimeter, circumference, surface area) | **Technology Standards:**  B.12.1 Define the need for information  state the information problem or question in clear and concise terms  relate prior knowledge to the problem or question  B.12.6 Interpret and use information to solve the problem or answer the question  interpret new information to formulate ideas which address the question or  problem using comparison, evaluation, inference, and generalization skills  synthesize new ideas, evidence, and prior knowledge to address the problem  or question  draw conclusions and support them with credible evidence |
| **Technology you plan on using:**  **Promethean Board**  **Measuring Instruments**  **Computers (excel, word)**  **Voice Thread** | **21st Century Skills your unit will demonstrate – include 2-3 skills:**  **Communication Skills**—Understanding, managing, and creating effective oral, written, and multimedia communication in a variety of forms and contexts  **Critical Thinking and Systems Thinking**—Exercising sound reasoning in understanding and making complex choices; understanding the interconnections among systems  **Information and Media Literacy Skills**—Analyzing, accessing, managing, integrating, evaluating, and creating information in a variety of forms and media  **Problem Identification, Formulation, and Solution**—Ability to frame, analyze, and solve problems |
| **What are your essential questions?**  Design a reusable water bottle that holds the most water using the least amount of material as well as filters water and keeps it cold. | |
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